

Joslin, Richard R - DNR

From: Gruen, Andrea M - DNR
Sent: Friday, November 24, 2017 8:30 AM
To: Joslin, Richard R - DNR
Subject: FW: Final spill report Wakker Dairy
Attachments: Spread log 2.pdf; Manure spill documents.pdf; Wakker manure spill report..docx

Categories: WORK - Important

Rick,

Attached is Wakker's final spill report.

Andrea

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Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Wakker Dairy [mailto:wakkerdairy@gmail.com]
Sent: Friday, November 24, 2017 7:21 AM
To: Gruen, Andrea M - DNR
Subject: Final spill report Wakker Dairy

Andrea,

Here is the final report for the manure spill at Wakker Dairy. If you have any questions please let me know.

Thanks
Eric

Eric Holverson
Manager
Wakker Dairy Farm
wakkerdairy@gmail.com
931-316-5142

to johanneswakker, me, Todd

Good afternoon,

This correspondence is to inform you of Wakker Dairy's responsibility to submit a spill report within five days of identifying noncompliance with WPDES permit conditions. Since Wakker Dairy identified the manure in the tile lines on a field that is contained in their NMP on Friday, November 10, 2017, the spill report will be due on **Wednesday, November 15, 2017**. Please note that if cleanup actions are still ongoing at this time that a report should still be submitted detailing the spill cleanup thus far, and that a final report be submitted at the conclusion of the spill cleanup. For the purposes of moving forward with this case in a timely manner, the Department is requesting that **the final report be submitted within five days of the conclusion of spill cleanup**.

Below are some items that the spill report should contain. Please feel free to contact me if you have any questions.

1. Name, address, phone number for responsible parties.
Wakker Dairy Farm. N2348 St Hwy 42, Kewaunee, WI 54216, Eric Holverson, Manager, 931-316-5142
2. Sketch of the site or map with relevant features labeled; flow path, sumps, berms, pumping areas, etc.
See attachment
3. Duration of spill: When it was first discovered, when cleanup efforts were started and when cleanup efforts were stopped.
The spill was discovered on November 10, 2017. Cleanup started immediately. Cleanup is ongoing. Cleanup ended on November 18, 2017.
4. A description of conditions that led to the spill occurring.
We think a tile was broken in the field allowing manure into the tile line.
5. A description of cleanup and containment actions, including approximate dates and times.
A collection sump was dug by the tile line leaving the field to collect liquid on November 10. Sand bags were already in place in ditch west of County J and County B intersection (November 9). Water was pumped from behind berm November 11 and 12. November 12 water was pumped from standing water areas behind berm. I continued to pump the field sump daily until November 18, 2017. Stagnant pools of water were pumped until November 16, 2017
6. Photos of cleanup activities or impacted areas post-cleanup.
Photos will be taken after cleanup is complete.
7. An estimate of the amount of liquid recovered, or billing logs from the pumping companies if they use a per gallon/load billing system.
We estimate 26,100 gallons of liquid recovered through November 14, 2017. November 15-18, 2017 6900 additional gallons recovered.
8. A description of where reclaimed liquid was taken (e.g. which manure pit(s) it was taken to or which field(s) it was applied on including rate, method of application, etc.).

Liquid taken to JW4 and KP1 applied at 3000 gallons per acre. Surface applied. 1200 gallons put in Wakker manure pit 4. Additional 6900 gallons were put in Wakker pit #4, November 15-18, 2017

9. A confirmation that any temporary berms, sumps, or other structures placed in public right-of-way have been returned to their original state.
Cleanup ongoing. Kewaunee County Highway Dept. will pick up sand bag s used as berm.
10. A description of proposed actions/changes to prevent future similar incidents.
Tile lines will be inspected and fixed by contractor. After cleanup we will install a box at the end of the tile line with shutoff to make sure if there is a broken tile in the future we will be able to stop it and collect it before it gets in the main tile line running along the intermittent stream.

Thank you,
Andrea

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Andrea Gruen

Agricultural Runoff Management Specialist
Wisconsin Department of Natural Resources

[2984 Shawano Ave.](#)

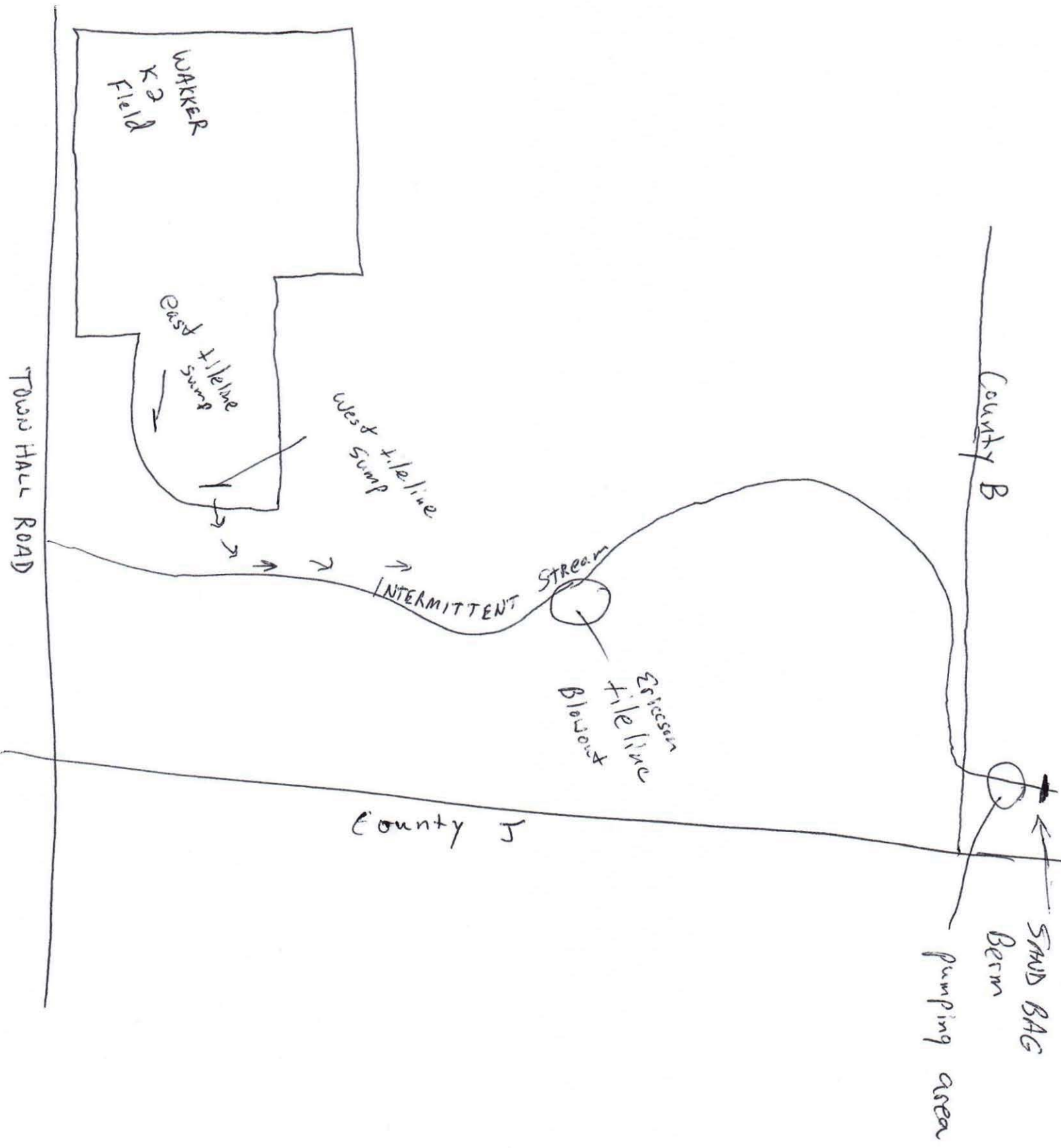
[Green Bay, WI 54313](#)

Phone: [\(920\) 662-5460](#)

Fax: [\(920\) 662-5498](#)

Andrea.Gruen@Wisconsin.gov

[illegible]



Daily Spreading Log for Manure Applicators

Form 3200-123A (R 11/05)

OPERATION NAME: Wakker Dairy

Record-keeping requirements may vary according to permit. See your permit for specific record-keeping requirements that apply to your operation.

Notice: Collection of this information is authorized under Ch. NR 243, Wis. Admin. Code and s. 283.55, Wis. Stats. Failure to submit the requested information may result in penalties pursuant to ss. 283.89 and 283.91, Wis. Stats. These records shall be maintained onsite for a period of at least 5 years from the date they are created. Failure to retain the requested information may result in penalties pursuant to ss. 283.89 and 283.91, Wis. Stats.

Application Date	Driver	Field ID	Acres Applied	Manure/Process Wastewater Source	Spreader Volume	# Loads	Soil Conditions* (saturated, non-sat., frozen, snow)	Weather** During Application (temp & precipitation)	Application (Inject, Incorporate or Surface)
Nov 17									
11-11	ERIC	JW-4	1	Tile line W	300	1	FROZEN	cloudy	Surface
				Tile line E	200				
11-11	ERIC	JW-4	4	Ditch along County Rd J	1500 gal	7	Frozen	Cloudy	Surface
11-12	ERIC	JW-4	1	Tile line W	400 gal	7	Frozen	Cloudy	Surface
				Tile line E	200 gal				
11-12	ERIC	JW-4	3	Ditch along County J	1500 gal	3	Frozen	Cloudy	Surface
11-13	ERIC	—	0	tileline W	400 gal	Stored in tanker			
				tileline E	200 gal				
11-14	ERIC	WAKKER PIT #4	0	tileline W	400 gal				
				tileline E	200 gal	1	—	—	—

* If your permit requires reporting on soil conditions, see Ch. NR 243.03, Wis. Admin. Code for soil condition definitions (saturated, frozen, snow-covered). If snow-covered, indicate inches of snow present.

** Your permit may require that you keep records of weather conditions 24 hours before and after application. This information should be recorded in a separate Weather Log.

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Sent To
Eric Holverson Walker Dairy Farm
 Street and Apt. No., or PO Box No.
N2348 5TH 42
 City, State, ZIP+4®
Kewaunee WI 54216

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Kewaunee WI 54216

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Eric M Holverson ☐ Agent ☒ Addressee

B. Received by (Printed Name) *ERIC M HOLVERSON* C. Date of Delivery *11-6-17*

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PS Form 3800, April 2015 (Reverse) PSN 7530-02-000-9047

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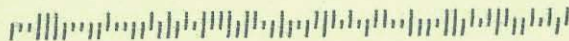
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Rick Joslin

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December 6, 2017 at 9:39 am

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KEWAUNEE, WI 54216

Tracking History**December 6, 2017, 9:39 am**

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KEWAUNEE, WI 54216

Your item was delivered at 9:39 am on December 6, 2017 in KEWAUNEE, WI 54216.

Reminder to Schedule Redelivery of your item

November 27, 2017, 3:19 pm

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KEWAUNEE, WI 54216

November 26, 2017, 9:52 am

In Transit to Destination

On its way to KEWAUNEE, WI 54216

November 25, 2017, 9:52 am

In Transit to Destination

On its way to KEWAUNEE, WI 54216

November 24, 2017, 9:52 am

In Transit to Destination

On its way to KEWAUNEE, WI 54216

November 23, 2017, 11:52 pm

Departed USPS Regional Facility

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November 23, 2017, 9:33 am

In Transit to Destination

On its way to KEWAUNEE, WI 54216

November 21, 2017, 9:23 am

In Transit to Destination

On its way to KEWAUNEE, WI 54216

November 20, 2017, 9:23 am

In Transit to Destination

On its way to KEWAUNEE, WI 54216

November 18, 2017, 9:58 am

Arrived at USPS Regional Facility

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November 18, 2017, 9:48 am

In Transit to Destination

On its way to KEWAUNEE, WI 54216

November 17, 2017, 11:48 pm

Departed USPS Regional Facility

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November 17, 2017, 10:15 pm

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November 16, 2017

Eric Holverson
Wakker Dairy Farm
N2348 STH 42
Kewaunee, WI 54216

Certified Mail – Return Receipt Requested

STATE OF WISCONSIN NOTICE OF INTENT TO INCUR EXPENSES

Subject: Cost Recovery Associated with Manure Spill in the Town of Carlton, Wisconsin.
Manure entered a tile line from a field (K-2) owned and managed by Wakker Dairy Farm that discharged to a wetland and unnamed stream that lead to the East Twin River.
SERTS # 20171110NE31-1

Dear Mr. Holverson:

On November 8, 2017, the Wisconsin Department of Natural Resources (Department) observed manure contaminated water from a field drain tile line network discharging to a wetland in the Town of Carlton, Kewaunee County, Wisconsin. The manure contaminated water that accumulated in the wetland as a result of this spill, discharged to unnamed tributary of the East Twin River. Several fields were identified in the area that recently received manure, including a field (referred to as K-2) owned and managed by Wakker Dairy Farm (Wakker Dairy). The property owners (potential responsible parties) of these fields, including Wakker Dairy, were contacted and asked to take action to recover manure from the unnamed tributary of the East Twin River, investigate the source of manure, and stop the discharge of manure to the wetland and the unnamed tributary of the East Twin River. The potential responsible parties worked cooperatively and began to recover manure from the unnamed tributary of the East Twin River but discontinued late in the afternoon of November 8, 2017.

On November 9th, manure continued to enter the unnamed tributary with no efforts being made by a potential responsible party to investigate the source or contain the spill. As a result, the Department hired DeBroux Custom Work LLC (DeBroux) to address the manure spill. DeBroux, on behalf of the Department, removed water contaminated with manure during the afternoon and evening of November 9th and in the morning of November 10th. All of the collected manure laden water was land spread on a nearby field. On several occasions it was explained to the potential responsible parties that action needed to be taken to stop the release, investigate the source, and take actions to recover the manure laden water from the unnamed stream and if actions were not taken, the Department would hire their emergency response contractor to address this manure spill and cost recovery may be sought if a responsible party was identified.

In the afternoon of November 10, 2017, Wakker Dairy agreed to investigate the tile lines associated with field K-2 that recently received manure. Using an excavator, the tile line within the field K-2 was exposed and broke open for evaluation. Manure was observed flowing from the tile line that ultimately discharged to the wetland and unnamed tributary of the East Twin River. At that time Wakker Dairy called the manure spill into the Department's 24-hour spill hotline and assumed responsibility for the cleanup.

As a responsible party for the source of the manure spill from the field K-2 owned and managed by Wakker Dairy, you should be aware of the future cost recovery actions the Department may undertake in association with the investigation and cleanup of this spill. Under Chapter 292, Wis. Stats., the Department has the authority to recover all actual and necessary expenses incurred in carrying out its duties under s. 292.11, Wis. Stats. In addition to contractor costs, the Department will recover costs of its staff and related expenses in overseeing the cleanup. The Department may file a lien against the above-described property to recover the expenses that it incurs.

Once cleanup work has been completed and total costs for these activities are known, the Department will send you a letter and an invoice requesting reimbursement for these costs. At that point you will have 30 days from the date of that letter to submit payment.

Your cooperation in these efforts is greatly appreciated. If you have any questions or need more information, please contact me at 920-424-7077.

Sincerely,



Richard R. Joslin
Hydrogeologist / Northeast Region Spill Coordinator
Remediation and Redevelopment Program

Copy: FIT Section Chief / Shelley Fox – RR/5 (email)
John Sager – Spill Team Leader – Superior (email)
Roxanne N Chronert – NER Team Supervisor – NER (email)

Joslin, Richard R - DNR

From: Gruen, Andrea M - DNR
Sent: Tuesday, November 14, 2017 1:50 PM
To: Wakker Dairy
Cc: Joslin, Richard R - DNR; Davina Bonness
Subject: RE: Wakker Dairy Spill Report
Attachments: 004.JPG

Categories: WORK - Important

Good afternoon Eric,

Thank you for submitting the mid-cleanup report within the timeframe specified in Wakker Dairy's WPDES permit. As I mentioned below, a final report is requested to be submitted within five days of the conclusion of spill cleanup.

Also, I just wanted to confirm our conversation from Sunday morning regarding cleanup actions that will be taken by Wakker Dairy. You had stated that the farm will continue to monitor the K2 field sump regularly and remove manure-laden water as needed to prevent it from flowing back into the tile line and into the waterway. As you probably know, rainfall is predicted for this area late today and into tomorrow, so I want to ensure that Wakker Dairy is prepared to monitor the sump more frequently in case the precipitation causes it to fill up more quickly. Also, I had mentioned that there were areas of dark, cloudy liquid in the larger ponded areas along Cty Rd J (see attached photo), and that the farm should continue to remove liquid from these areas; I just want to confirm that the farm will continue to monitor the waterway along Cty Rd J and collect the dark liquid as it accumulates in these areas.

I would like to take a final look at the area when you think you are ready to wrap up the cleanup to see how everything looks. Please let me know via phone or email when you think you are reaching that point and we can coordinate a time to meet out at the site. If this happens over a weekend, please call my cell phone at (920) 367-3007.

Thank you,
Andrea

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Wakker Dairy [mailto:wakkerdairy@gmail.com]
Sent: Tuesday, November 14, 2017 12:12 PM
To: Gruen, Andrea M - DNR
Subject: Re: Wakker Dairy Spill Report

Andrea,

Here is the report and documents you requested. Let me know if you have any questions. Everything going smoothly with the cleanup.

Thanks
Eric

On Sat, Nov 11, 2017 at 1:57 PM, Gruen, Andrea M - DNR <Andrea.Gruen@wisconsin.gov> wrote:

Good afternoon,

This correspondence is to inform you of Wakker Dairy's responsibility to submit a spill report within five days of identifying noncompliance with WPDES permit conditions. Since Wakker Dairy identified the manure in the tile lines on a field that is contained in their NMP on Friday, November 10, 2017, the spill report will be due on **Wednesday, November 15, 2017**. Please note that if cleanup actions are still ongoing at this time that a report should still be submitted detailing the spill cleanup thus far, and that a final report be submitted at the conclusion of the spill cleanup. For the purposes of moving forward with this case in a timely manner, the Department is requesting that **the final report be submitted within five days of the conclusion of spill cleanup**.

Below are some items that the spill report should contain. Please feel free to contact me if you have any questions.

1. Name, address, phone number for responsible parties.
2. Sketch of the site or map with relevant features labeled; flow path, sumps, berms, pumping areas, etc.
3. Duration of spill: When it was first discovered, when cleanup efforts were started and when cleanup efforts were stopped.
4. A description of conditions that led to the spill occurring.
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6. Photos of cleanup activities or impacted areas post-cleanup.
7. An estimate of the amount of liquid recovered, or billing logs from the pumping companies if they use a per gallon/load billing system.
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9. A confirmation that any temporary berms, sumps, or other structures placed in public right-of-way have been returned to their original state.
10. A description of proposed actions/changes to prevent future similar incidents.

Thank you,

Andrea

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Andrea Gruen

Agricultural Runoff Management Specialist
Wisconsin Department of Natural Resources
[2984 Shawano Ave.](#)

[Green Bay, WI 54313](#)
Phone: [\(920\) 662-5460](#)

Fax: [\(920\) 662-5498](#)
Andrea.Gruen@Wisconsin.gov





Joslin, Richard R - DNR

From: Gruen, Andrea M - DNR
Sent: Tuesday, November 14, 2017 1:41 PM
To: Joslin, Richard R - DNR
Cc: Chronert, Roxanne N - DNR
Subject: FW: Wakker Dairy Spill Report
Attachments: Wakker manure spill report..docx; Manure spill documents.pdf

Categories: WORK - Important

Rick,

Below and attached are Wakker's reports for the ongoing spill in the Town of Carlton, Kewaunee County.

Also, to follow up on our conversation from yesterday afternoon, Mary Gansberg said the photos in the unnamed trib along Cty Rd J from Sunday looked much worse than when she performed her assessment on Friday, likely because DeBroux had just collected a load of manure-laden water from the stream before she arrived. She agreed to stop out there at some point this week and take a look at the water quality in that area.

Andrea

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Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Wakker Dairy [mailto:wakkerdairy@gmail.com]
Sent: Tuesday, November 14, 2017 12:12 PM
To: Gruen, Andrea M - DNR
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Andrea,

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Thanks
Eric

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6. Photos of cleanup activities or impacted areas post-cleanup.
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8. A description of where reclaimed liquid was taken (e.g. which manure pit(s) it was taken to or which field(s) it was applied on including rate, method of application, etc.).
9. A confirmation that any temporary berms, sumps, or other structures placed in public right-of-way have been returned to their original state.
10. A description of proposed actions/changes to prevent future similar incidents.

Thank you,

Andrea

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Andrea Gruen

Agricultural Runoff Management Specialist
Wisconsin Department of Natural Resources
[2984 Shawano Ave.](#)

[Green Bay, WI 54313](#)
Phone: [\(920\) 662-5460](#)

Fax: [\(920\) 662-5498](#)
Andrea.Gruen@Wisconsin.gov



dnr.wi.gov



to johanneswakker, me, Todd

Good afternoon,

This correspondence is to inform you of Wakker Dairy's responsibility to submit a spill report within five days of identifying noncompliance with WPDES permit conditions. Since Wakker Dairy identified the manure in the tile lines on a field that is contained in their NMP on Friday, November 10, 2017, the spill report will be due on **Wednesday, November 15, 2017**. Please note that if cleanup actions are still ongoing at this time that a report should still be submitted detailing the spill cleanup thus far, and that a final report be submitted at the conclusion of the spill cleanup. For the purposes of moving forward with this case in a timely manner, the Department is requesting that **the final report be submitted within five days of the conclusion of spill cleanup**.

Below are some items that the spill report should contain. Please feel free to contact me if you have any questions.

1. Name, address, phone number for responsible parties.
Wakker Dairy Farm. N2348 St Hwy 42, Kewaunee, WI 54216, Eric Holverson, Manager, 931-316-5142
2. Sketch of the site or map with relevant features labeled; flow path, sumps, berms, pumping areas, etc.
See attachment
3. Duration of spill: When it was first discovered, when cleanup efforts were started and when cleanup efforts were stopped.
The spill was discovered on November 10, 2017. Cleanup started immediately. Cleanup is ongoing.
4. A description of conditions that led to the spill occurring.
We think a tile was broken in the field allowing manure into the tile line.
5. A description of cleanup and containment actions, including approximate dates and times.
A collection sump was dug by the tile line leaving the field to collect liquid on November 10. Sand bags were already in place in ditch west of County J and County B intersection (November 9). Water was pumped from behind berm November 11 and 12. November 12 water was pumped from standing water areas behind berm.
6. Photos of cleanup activities or impacted areas post-cleanup.
Photos will be taken after cleanup is complete.
7. An estimate of the amount of liquid recovered, or billing logs from the pumping companies if they use a per gallon/load billing system.
We estimate 26,100 gallons of liquid recovered
8. A description of where reclaimed liquid was taken (e.g. which manure pit(s) it was taken to or which field(s) it was applied on including rate, method of application, etc.).
Liquid taken to JW4 and KP1 applied at 3000 gallons per acre. Surface applied. 1200 gallons put in Wakker manure pit 4.
9. A confirmation that any temporary berms, sumps, or other structures placed in public right-of-way have been returned to their original state.
Cleanup ongoing

10. A description of proposed actions/changes to prevent future similar incidents.

Tile lines will be inspected and fixed by contractor. After cleanup we will install a box at the end of the tile line with shutoff to make sure if there is a broken tile in the future we will be able to stop it and collect it before it gets in the main tile line running along the intermittent stream.

Thank you,
Andrea

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Andrea Gruen

Agricultural Runoff Management Specialist
Wisconsin Department of Natural Resources

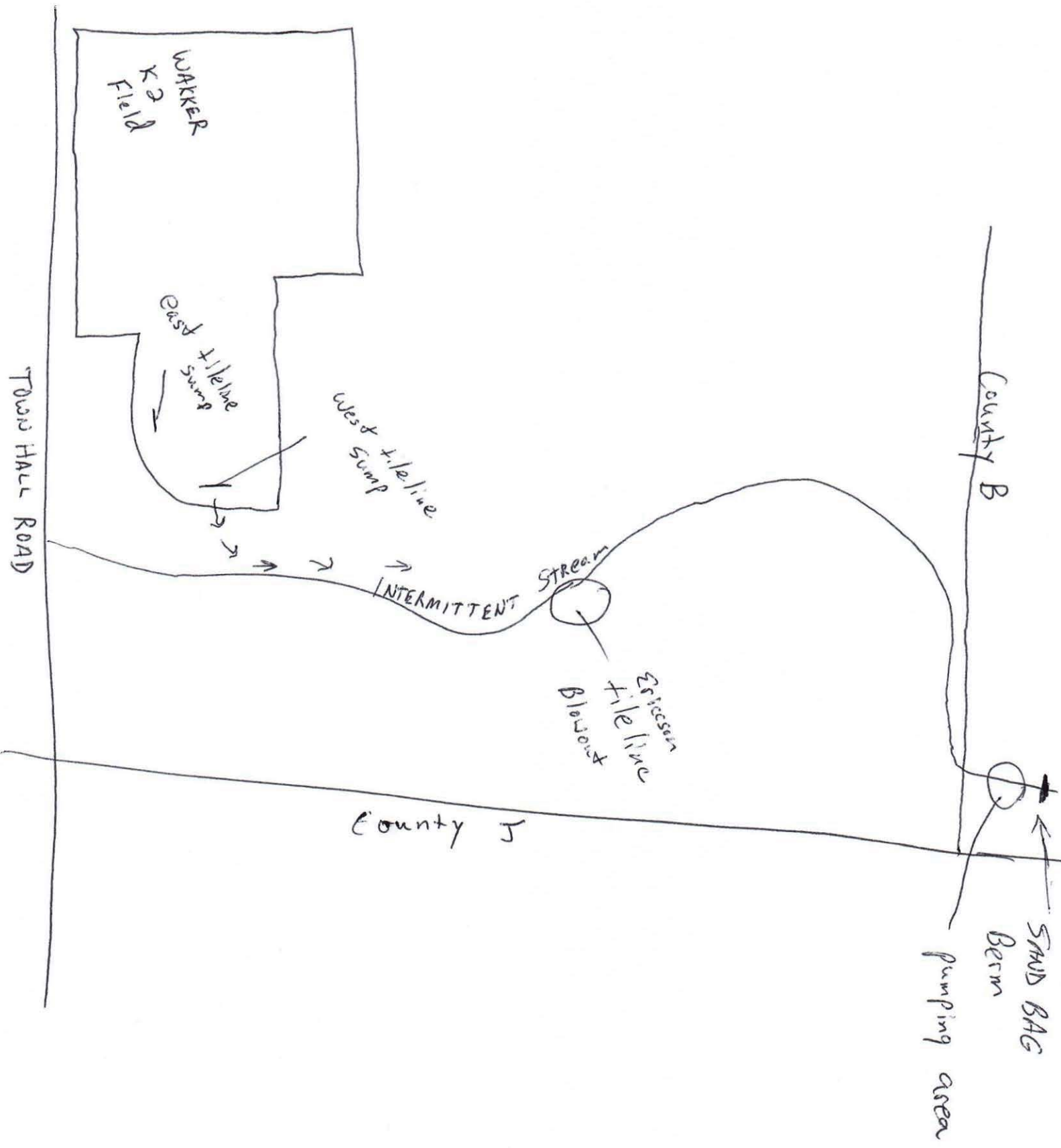
[2984 Shawano Ave.](#)

[Green Bay, WI 54313](#)

Phone: [\(920\) 662-5460](#)

Fax: [\(920\) 662-5498](#)

Andrea.Gruen@Wisconsin.gov



Daily Spreading Log for Manure Applicators

Form 3200-123A (R 11/05)

OPERATION NAME: Wakker Dairy

Record-keeping requirements may vary according to permit. See your permit for specific record-keeping requirements that apply to your operation.

Notice: Collection of this information is authorized under Ch. NR 243, Wis. Admin. Code and s. 283.55, Wis. Stats. Failure to submit the requested information may result in penalties pursuant to ss. 283.89 and 283.91, Wis. Stats. These records shall be maintained onsite for a period of at least 5 years from the date they are created. Failure to retain the requested information may result in penalties pursuant to ss. 283.89 and 283.91, Wis. Stats.

Application Date	Driver	Field ID	Acres Applied	Manure/Process Wastewater Source	Spreader Volume	# Loads	Soil Conditions* (saturated, non-sat., frozen, snow)	Weather** During Application (temp & precipitation)	Application (Inject, Incorporate or Surface)
Nov 17									
11-11	ERIC	JW-4	1	Tile line W	300	1	FROZEN	cloudy	Surface
				Tile line E	200				
11-11	ERIC	JW-4	4	Ditch along County Rd J	1500 gal	7	Frozen	Cloudy	Surface
11-12	ERIC	JW-4	1	Tile line W	400 gal	7	Frozen	Cloudy	Surface
				Tile line E	200 gal				
11-12	ERIC	JW-4	3	Ditch along County J	1500 gal	3	Frozen	Cloudy	Surface
11-13	ERIC	—	0	tileline W	400 gal	Stored in tanker			
				tileline E	200 gal				
11-14	ERIC	WAKKER PIT #4	0	tileline W	400 gal				
				tileline E	200 gal	1	—	—	—

* If your permit requires reporting on soil conditions, see Ch. NR 243.03, Wis. Admin. Code for soil condition definitions (saturated, frozen, snow-covered). If snow-covered, indicate inches of snow present.

** Your permit may require that you keep records of weather conditions 24 hours before and after application. This information should be recorded in a separate Weather Log.

Joslin, Richard R - DNR

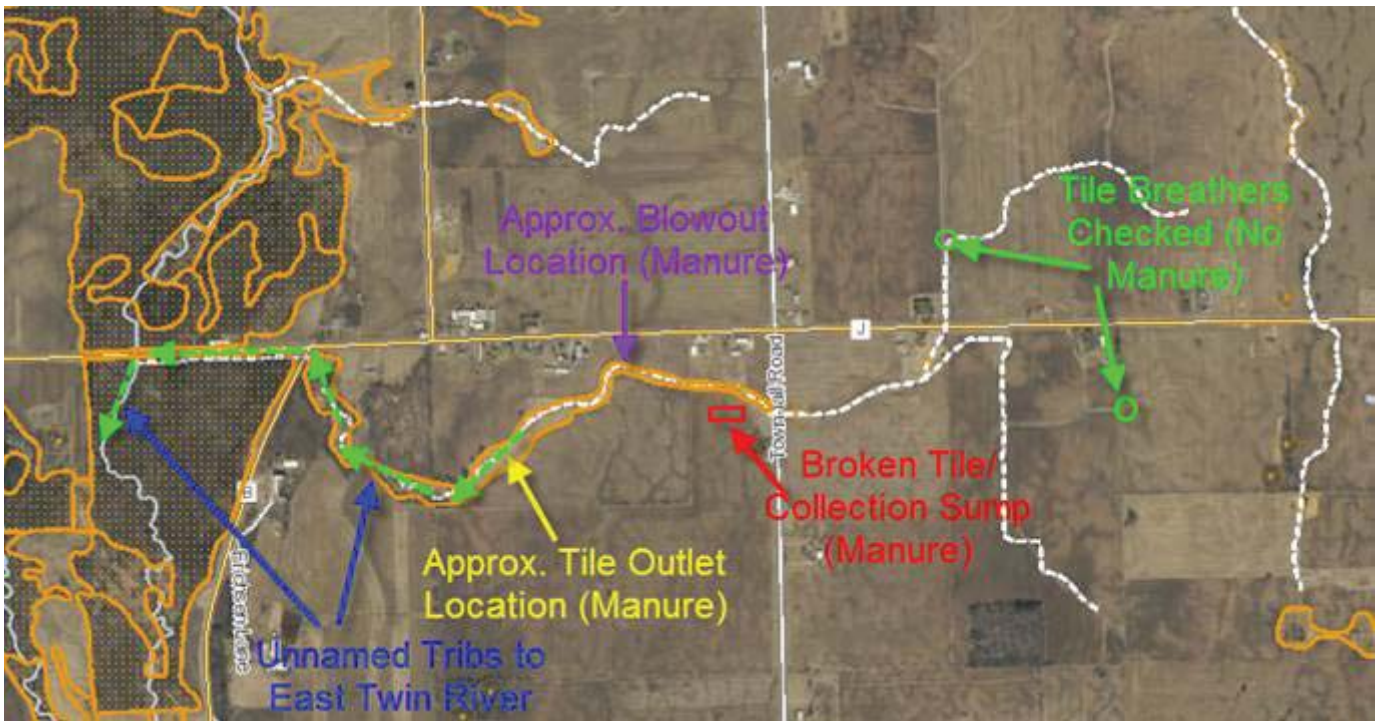
From: Gruen, Andrea M - DNR
Sent: Monday, November 13, 2017 10:11 AM
To: Stoll, Richard C - DNR; Chronert, Roxanne N - DNR; Davina Bonness
Cc: Hogler, Steven R - DNR; Legler, Nicholas D - DNR; Jones, Casey L - DNR; Uvaas, Benjamin J - DNR; Rombach-Bartels, Jean - DNR; Olson, Beth J - DNR; Joslin, Richard R - DNR; Travis Engels; Gansberg, Mary K - DNR; Baeten, Joseph B - DNR
Subject: Wakker Dairy Spill Update
Attachments: 101.JPG; 006.JPG; 001.JPG; 004.JPG

Categories: WORK - Important

Good morning,

I just wanted to give everyone a quick update on the Town of Carlton/Wakker Dairy manure spill. On Thursday afternoon, the DNR contacted agricultural cleanup zone contractor, DeBroux, to begin remediation activities at the spill site. DeBroux was able to work until 6 p.m. on Thursday and returned on Friday morning to remove manure-laden water from the unnamed tributary along Cty Rd J. On Friday afternoon, Wakker Dairy dug a hole to break a tile line in a nearby field that had recently received a manure application, and it was discovered that manure was flowing through the tile lines in that field and discharging to the unnamed tributary to the East Twin River. Travis Engels, Kewaunee County LWCD; Todd Koss, Wakker Dairy agronomist; and myself conducted investigations in neighboring fields using bailers in the tile breather pipes, and there did not appear to be a flow of manure in the tile lines from other fields. Rick Joslin from the Spills Program contacted Eric Halvorsen, authorized representative for Wakker Dairy, and informed him of the farm's responsibilities as the RP. The expectations for cleanup were verbally communicated to Halvorsen on scene before I departed the site Friday afternoon. Mary Gansberg, DNR Water Quality Biologist, conducted a stream survey of the area on Friday afternoon after approximately 24 hours of remediation activities and did not observe any significant water quality concerns. Water sampling results from last Wednesday are still pending.

I checked in on cleanup progress on Saturday morning and Sunday afternoon. Water quality in the unnamed tributary to the East River looked improved on Sunday, but there were still larger pooled areas where discoloration was obvious. Manure was still flowing through the tile lines to a sump pit for collection on Sunday afternoon. It was verbally communicated to Halvorsen that the farm should continue to collect manure-laden liquid from this sump pit until it begins to run clear, as well as the discolored areas of water in the unnamed tributary along Cty Rd J until water quality improves. The farm is applying the reclaimed manure to nearby fields in accordance with their NMP and permit requirements.



I have attached an aerial map below for rough location reference. I also attached photos from the weekend:

- 101 is from tile line sump pit in field K2 on Saturday morning.
- 001 is of unnamed trib along Cty Rd J on Sunday.
- 004 is of unnamed trib along Cty Rd J on Sunday.
- 006 is at the road culvert under Cty Rd B on Sunday.
-

The Ag Runoff Program will continue to work with the farm to ensure that proper cleanup of the site takes place and that reporting requirements are met.

Please let me know if you have any questions.

Thank you,
Andrea

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Andrea Gruen

Agricultural Runoff Management Specialist
Wisconsin Department of Natural Resources
2984 Shawano Ave.
Green Bay, WI 54313
Phone: (920) 662-5460
Fax: (920) 662-5498
Andrea.Gruen@Wisconsin.gov











Joslin, Richard R - DNR

From: Gansberg, Mary K - DNR
Sent: Friday, November 10, 2017 6:50 PM
To: Gruen, Andrea M - DNR
Cc: McLennan, Robin - DNR; Joslin, Richard R - DNR
Subject: Town of Carlton investigation

Categories: WORK - Important

Andrea,

Below is a summary of what I observed this afternoon regarding my investigation of the Unnamed Tributaries (WBIC 5019298 and 86400) and the East Twin River (WBIC 84000) in the Town of Carlton, Kewaunee County.

I collected field water quality parameters at eight locations. Results are presented on the attached spreadsheet.



Worksheet: Carlton
Office hours: 10:00 AM - 4:00 PM

Dissolved oxygen, pH, and specific conductivity were in the normal range at all locations monitored except somewhat unusual at site #4 where the pumper had just finished pumping the creek. At the time I was there (between 12:15 and 13:05), no water from the Unnamed Tributary (WBIC 5019298) along CTH J was passing by the sand bags. Live fish were observed in the East Twin River below CTH B road crossing. No dead or dying fish or invertebrates were observed anywhere along the stream reaches.

Map of the monitoring locations:



300-300-2000
40-300-200-1000

Pictures of the Unnamed Tributary just upstream of CTH B (site #5). The water sample collected at this location did not have a manure smell.



Unnamed Tributary
Unnamed Tributary
Unnamed Tributary
Unnamed Tributary

Based on my brief investigation, I did not observe any significant water resources concerns.

Please let me know if you would like me to do follow-up monitoring.

Thanks,
Mary

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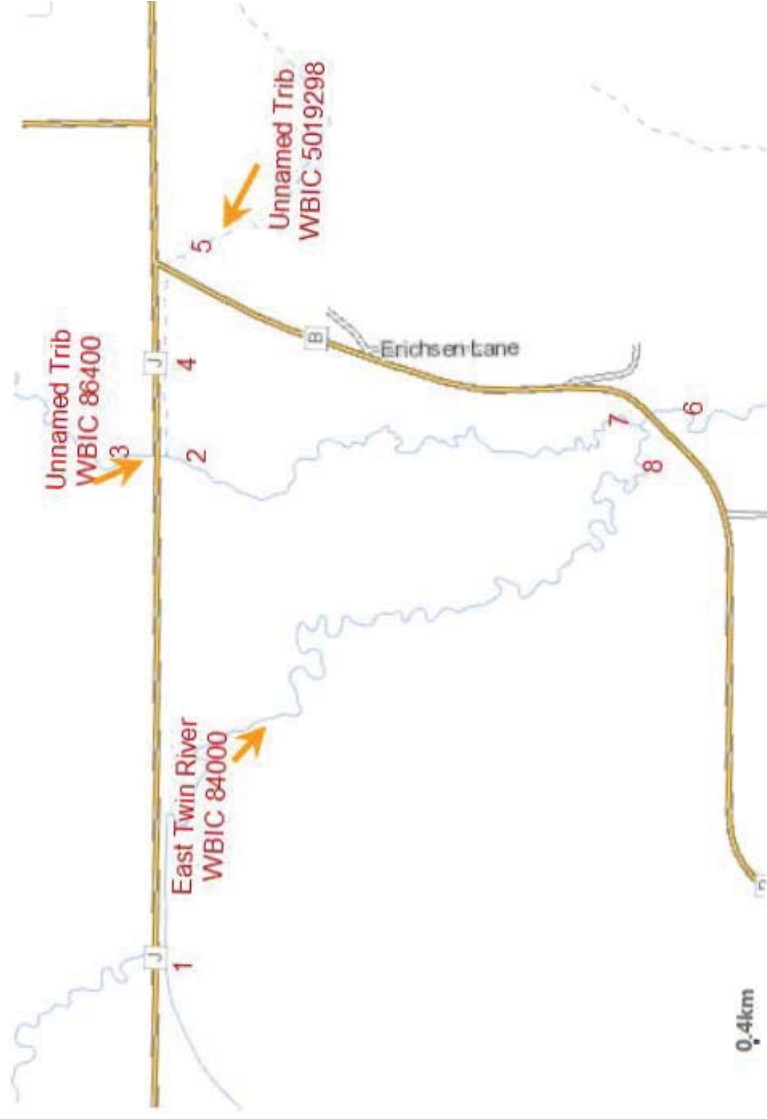
Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Mary Gansberg

Water Resources Management Specialist
Wisconsin Department of Natural Resources
2984 Shawano Ave, Green Bay WI 54313
Phone: (920) 662-5489
Fax: 920-662-5498

Mary.Gansberg@wisconsin.gov





11/10/2017



11/10/2017



Joslin, Richard R - DNR

From: Chronert, Roxanne N - DNR
Sent: Thursday, November 09, 2017 11:45 AM
To: Gruen, Andrea M - DNR; Stoll, Richard C - DNR; Joslin, Richard R - DNR; Chronert, Roxanne N - DNR; Webb, Carrie A - DNR; Sager, John E - DNR; bonness.davina@kewauneeco.org
Cc: Jones, Casey L - DNR; Schmitt Marquez, Heidi S - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hogler, Steven R - DNR; Baeten, Joseph B - DNR; Rombach-Bartels, Jean - DNR; Olson, Beth J - DNR
Subject: FW: Significant Spill - Manure Release in Kewaunee County (SERTS # 2171108NE31-1)
Attachments: Tile Map.pdf

After further group discussion decision was made to do the following:

Rick –

Call 3 farmers/potential responsible parties and ask them to continue to pump (they pumped ~15,000 gallons yesterday then quit)

If they refuse indicate we are going to indicate we will be invoking ERZC to pump manure from wetland area and just to west of CTH J to get the most highly potent manure and manure/water out of wetland.

Ask farmers to take actions in their fields to eliminate any additional release to the area

Indicate to farmers we are looking to hire a contractor to smoke tile lines. Would they be willing to smoke lines? Will they give access to fields for us to connect this work.

Rick is going to call out ERZC – pay callout and hourly fee for 1 person from DeBroux to advise on pumping options/locations and be ready to back up with pumping if potential RP(s) do not take action

Rick can you ask Co EM to assist with signage on CTH J if needed. Can they also let the Co Health Dept know in case there are any questions.

Andrea –

Identify a company that could smoke tile lines

Work with Co to find location to take manure and manure/water pumped by ERZC (DeBroux) if we invoke contract

Contact landowner that has long driveway with access to wetland

Provide Rick with contact info for 3 farmers

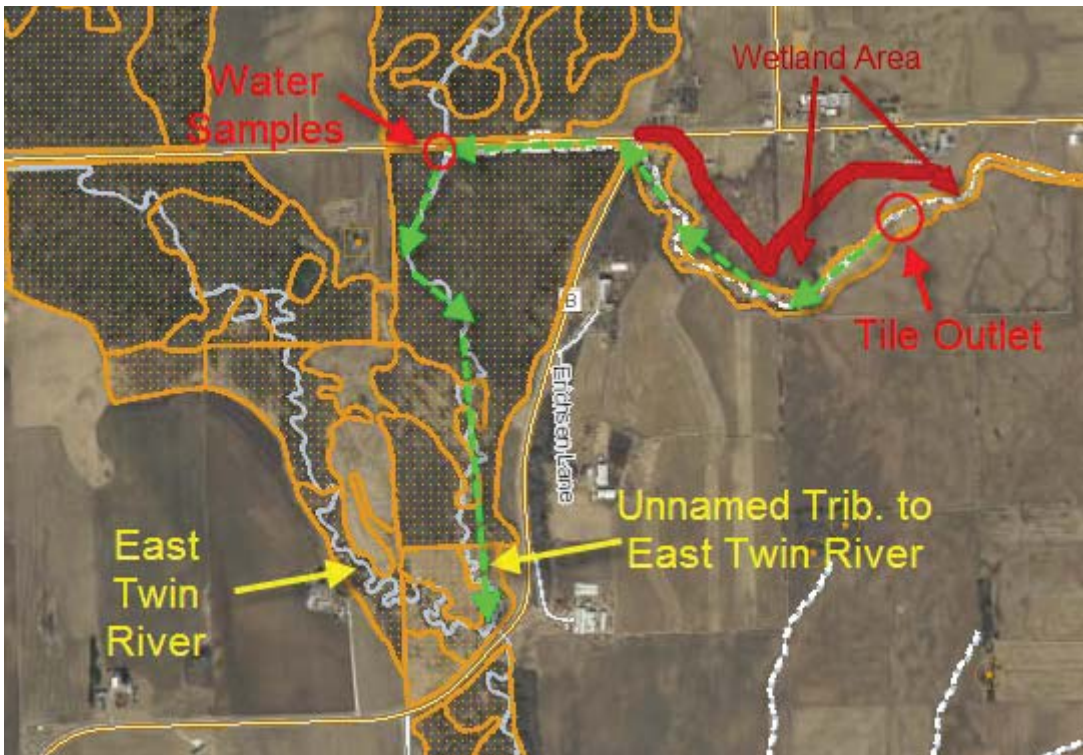
Rox –

Contact Carrie Webb regarding potential of ERZC co to hand dig small sumps in wetland to more efficiently pump from wetland

Notify John Sager

Carrie –

As discussed, please review map below. Plan to wetland area and potentially up to end of red line near CTH J. If you do not think we should be able to dig small sumps in wetland area please advise ASAP.



We are committed to service excellence.

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Roxanne Nelezen Chronert

Northeast Region Remediation and Redevelopment Team Supervisor

Wisconsin Department of Natural Resources

2984 Shawano Avenue, Green Bay WI 54313-6727

Phone: (920) 662-5120

Cell Phone: (920) 362-3981

Roxanne.chronert@Wisconsin.gov



From: Travis Engels [mailto:engels.travis@kewauneeco.org]

Sent: Thursday, November 09, 2017 9:08 AM

To: Gruen, Andrea M - DNR; Stoll, Richard C - DNR; Joslin, Richard R - DNR; Davina Bonness; Chronert, Roxanne N - DNR

Cc: Jones, Casey L - DNR; Schmitt Marquez, Heidi S - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hogler, Steven R - DNR; Baeten, Joseph B - DNR; Rombach-Bartels, Jean - DNR; Olson, Beth J - DNR

Subject: Re: Significant Spill - Manure Release in Kewaunee County (SERTS # 2171108NE31-1)

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Attached is our GIS tile map and fields that have recently received manure. I sent a similar map to Andrea yesterday afternoon, but wanted to send to the group. I was told applications on Wakker Fields were between 32,000 and 36,000 gallons per acre and Rolling Hills applied 15,000 gallons per acre as field conditions (field was wet in spots and not tiled) would not have supported the NMP's recommended rates.

Stodola Ag Transport, Rolling Hills Dairy and Augustian Farms did what they could to help or attempt a clean up, but pulled off site yesterday afternoon around 3:30 pm. Equipment they had access to, was insufficient to handle the amount of manure onsite. We removed 4 tanks at approximately 3,000 gallons per tank for a total of about 12,000 gallons.

Please advise if any additional information can be provided.

Thank you,

Travis

Travis Engels

Conservation Specialist

Kewaunee County Land & Water Conservation Department

625 Third Street

Luxemburg, WI 54217

Direct - 920-845-9742

Fax - 920-845-9745

engels.travis@kewauneeco.org

From: Gruen, Andrea M - DNR <Andrea.Gruen@wisconsin.gov>

Sent: Wednesday, November 8, 2017 7:40 PM

To: Stoll, Richard C - DNR; Joslin, Richard R - DNR; Davina Bonness; Chronert, Roxanne N - DNR

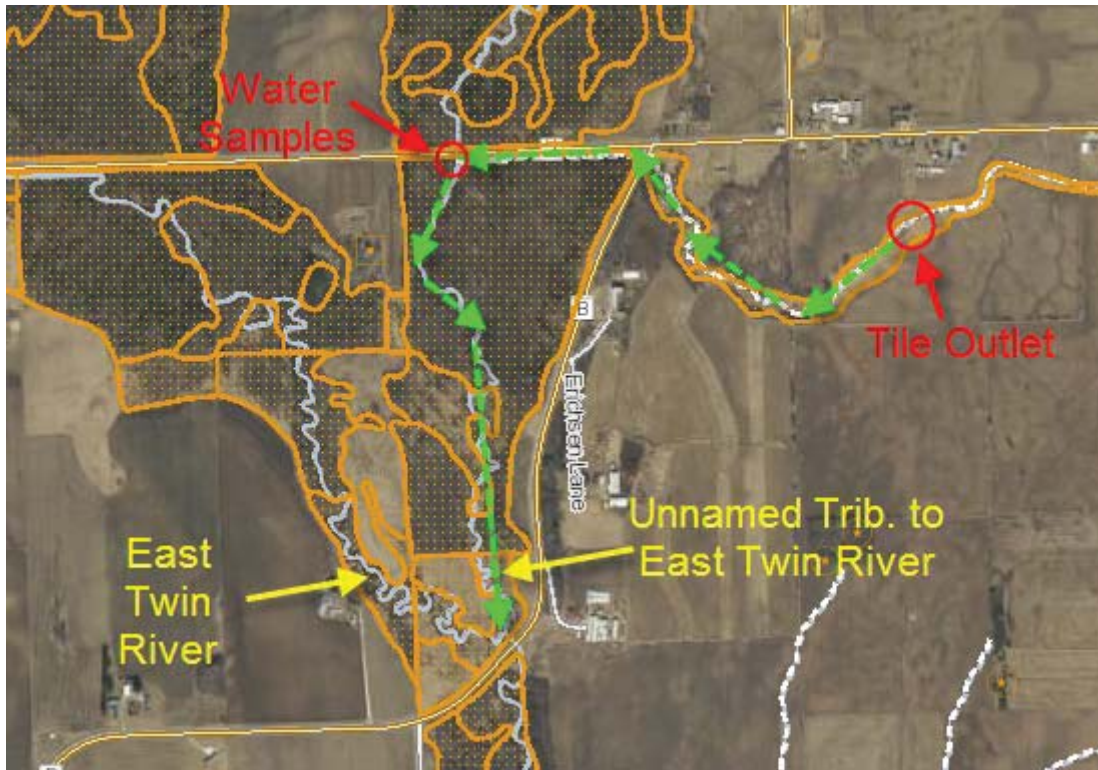
Cc: Travis Engels; Jones, Casey L - DNR; Schmitt Marquez, Heidi S - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hogler, Steven R - DNR; Baeten, Joseph B - DNR; Romback-Bartels, Jean - DNR; Olson, Beth J - DNR

Subject: FW: Significant Spill - Manure Release in Kewaunee County (SERTS # 2171108NE31-1)

Good evening,

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time. The East Twin River is a Class II Trout Stream upstream of the manure discharge, and Wadable Nursery Waters for Smallmouth Bass downstream of the manure discharge.



Thank you to Rick Joslin, Ben Uvaas, and Travis Engels for providing technical assistance throughout the day.

Please feel free to contact me if you have any questions.

Thank you,
Andrea

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Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Joslin, Richard R - DNR

Sent: Wednesday, November 08, 2017 11:22 AM

To: DNR DL NER SIGNIFICANT SPILL

Cc: Gruen, Andrea M - DNR; Schmitt Marquez, Heidi S - DNR; Jones, Casey L - DNR; Gansberg, Mary K - DNR; Webb, Carrie A - DNR; Legler, Nicholas D - DNR; Merry, JaNelle P - DNR; Stoll, Richard C - DNR; Meronek, Thomas - DNR; Davina Bonness; Betsy_Galbraith@fws.gov

Subject: Significant Spill - Manure Release in Kewaunee County (SERTS # 2171108NE31-1)

Hello Everyone,

The Wisconsin Department of Natural Resources received a report of a manure spill in Kewaunee County this morning. Details are few and still being worked out at this time. This is what we know:

Andrea Gruen, WDNR Ag Runoff Specialist and Kewaunee County Land Conservation Department observed a manure release from a drain tile system near the Township of Carlton, Kewaunee County. Approximate location can be observed using the link below:

<https://www.google.com/maps/place/Co+Rd+B,+Kewaunee,+WI+54216/@44.39954,-87.6125494,13.95z/data=!4m5!3m4!1s0x8802d5b900036fe7:0x251b1240753b620a!8m2!3d44.4000259!4d-87.5964082>

Manure was observed in an unnamed stream (near CTH B and CTH J) that combines with the East Twin River (see map below)



The quantity released is not known at this time. The source of the release is not known at this time. There has been no reports of fish kills at this time. Three farms that spread manure on nearby fields in the area are working together to address the spill. Preliminary plans are to contain the impacted water and use vacuum trucks for collection. WDNR Ag Runoff staff and Kewaunee County are continuing to search for a source of the release.

If you have any questions please feel free to contact me.

Rick

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

Wisconsin Department of Natural Resources

625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731

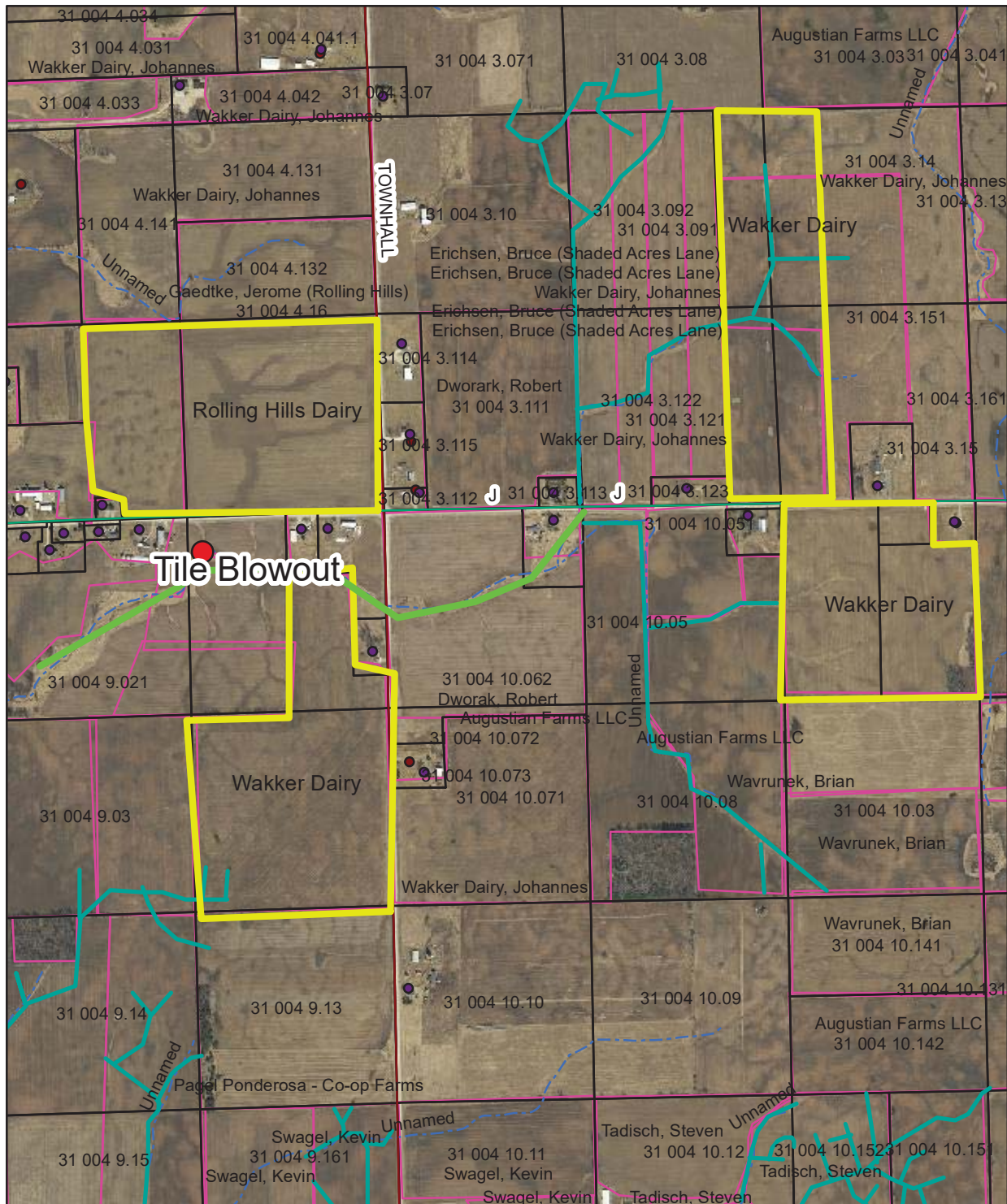
Phone: (920) 424-7077

Cell Phone: (920) 360-4291

Richard.Joslin@Wisconsin.gov



Site Map



- Manure Spread
- Tile Blowout
- Documented Tile



Kewaunee County
Land & Water Conservation Department



Joslin, Richard R - DNR

From: Travis Engels <engels.travis@kewauneeco.org>
Sent: Thursday, November 09, 2017 9:08 AM
To: Gruen, Andrea M - DNR; Stoll, Richard C - DNR; Joslin, Richard R - DNR; Davina Bonness; Chronert, Roxanne N - DNR
Cc: Jones, Casey L - DNR; Schmitt Marquez, Heidi S - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hogler, Steven R - DNR; Baeten, Joseph B - DNR; Rombach-Bartels, Jean - DNR; Olson, Beth J - DNR
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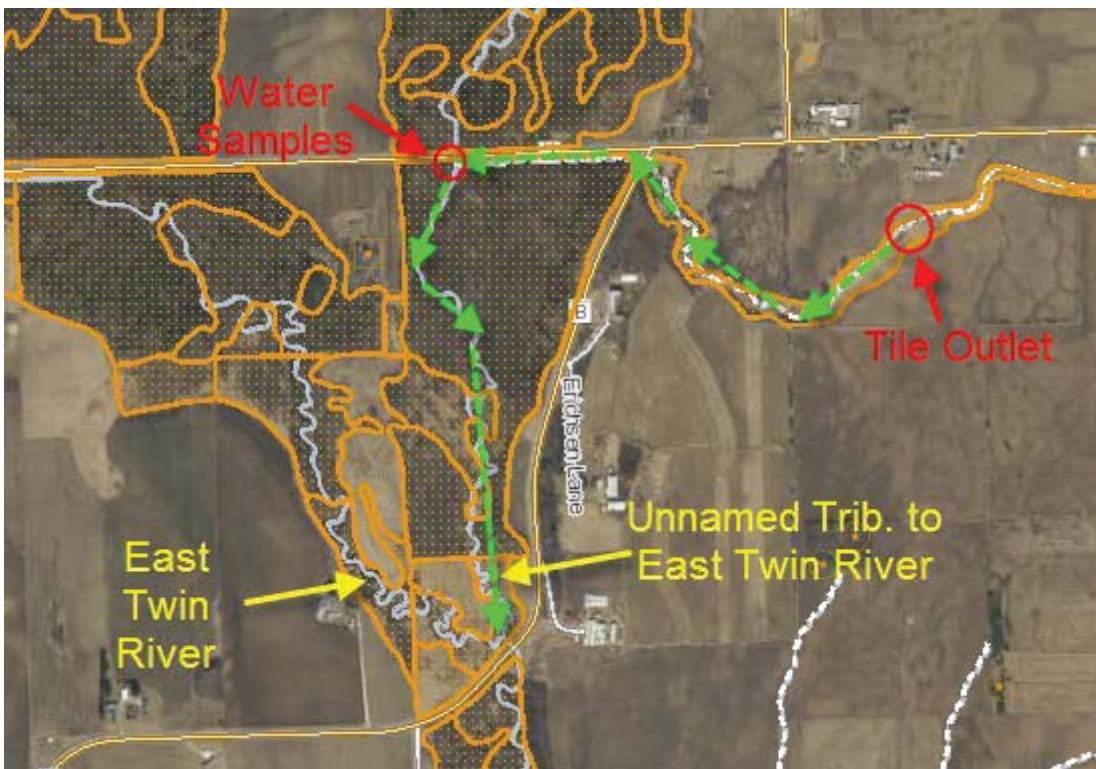
Travis Engels
Conservation Specialist
Kewaunee County Land & Water Conservation Department
625 Third Street
Luxemburg, WI 54217
Direct - 920-845-9742
Fax - 920-845-9745
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From: Gruen, Andrea M - DNR <Andrea.Gruen@wisconsin.gov>
Sent: Wednesday, November 8, 2017 7:40 PM
To: Stoll, Richard C - DNR; Joslin, Richard R - DNR; Davina Bonness; Chronert, Roxanne N - DNR
Cc: Travis Engels; Jones, Casey L - DNR; Schmitt Marquez, Heidi S - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K -

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Cc: Gruen, Andrea M - DNR; Schmitt Marquez, Heidi S - DNR; Jones, Casey L - DNR; Gansberg, Mary K - DNR; Webb, Carrie A - DNR; Legler, Nicholas D - DNR; Merry, JaNelle P - DNR; Stoll, Richard C - DNR; Meronek, Thomas - DNR; Davina Bonness; Betsy_Galbraith@fws.gov

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

Wisconsin Department of Natural Resources

625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731

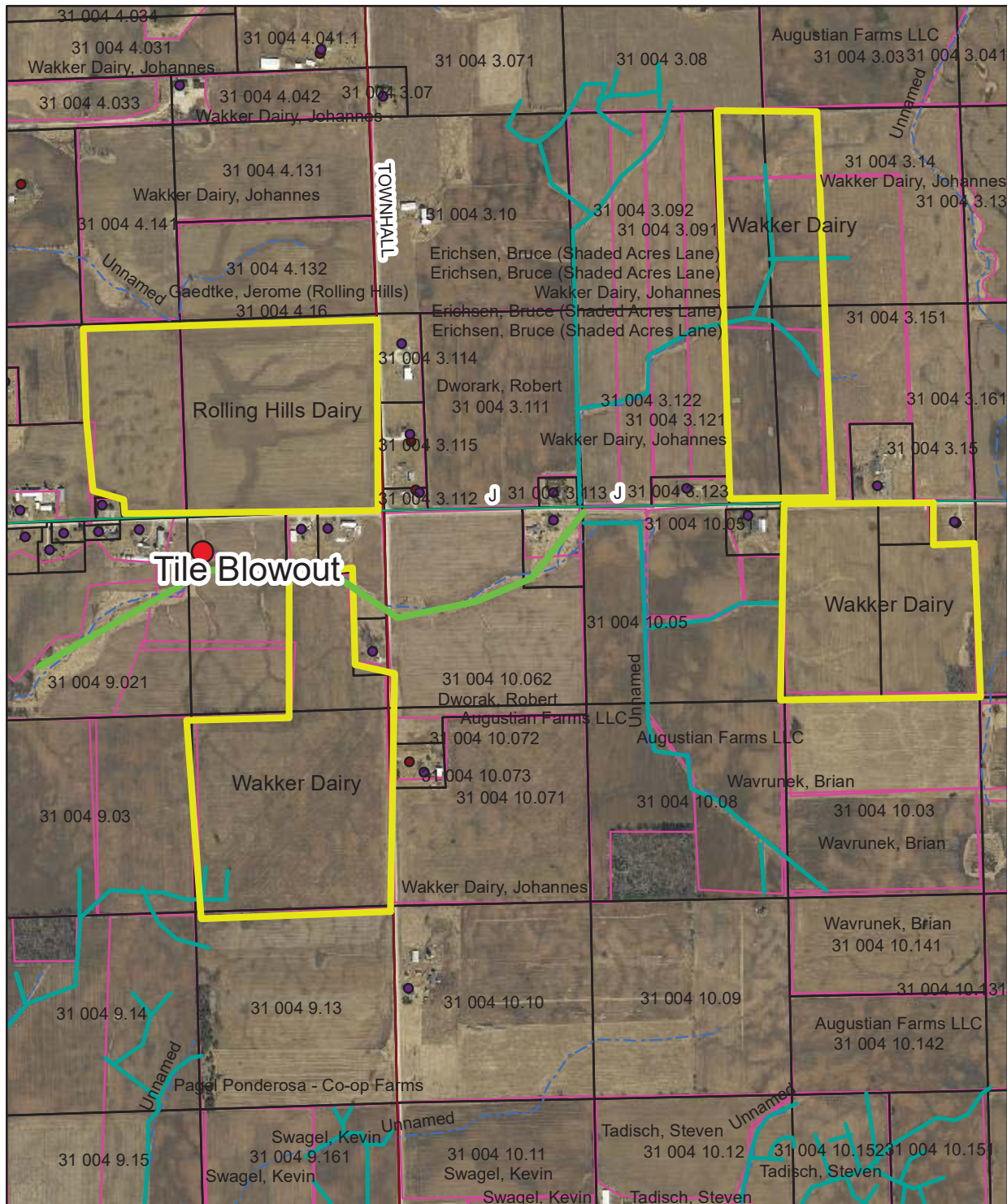
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Site Map



- Manure Spread
- Tile Blowout
- Documented Tile



Kewaunee County
Land & Water Conservation Department

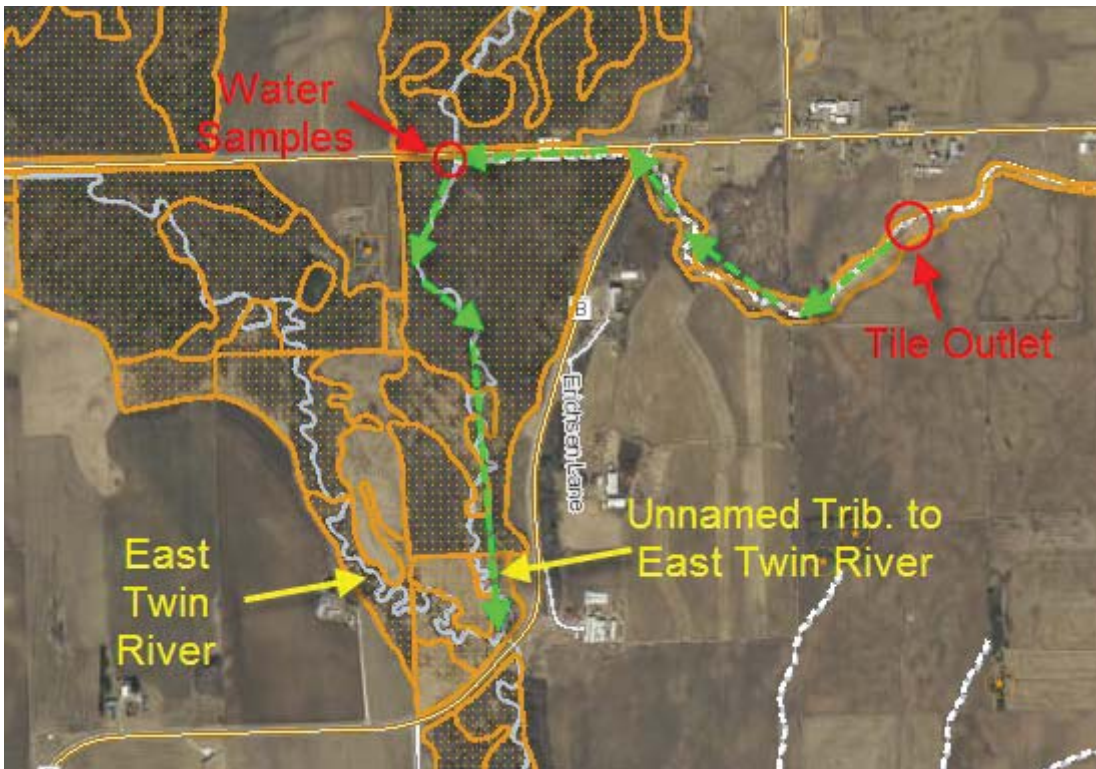


Joslin, Richard R - DNR

From: Gruen, Andrea M - DNR
Sent: Wednesday, November 08, 2017 7:41 PM
To: Stoll, Richard C - DNR; Joslin, Richard R - DNR; Davina Bonness; Chronert, Roxanne N - DNR
Cc: Travis Engels; Jones, Casey L - DNR; Schmitt Marquez, Heidi S - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hogler, Steven R - DNR; Baeten, Joseph B - DNR; Rombach-Bartels, Jean - DNR; Olson, Beth J - DNR
Subject: FW: Significant Spill - Manure Release in Kewaunee County (SERTS # 2171108NE31-1)

Good evening,

I just wanted to briefly update everyone on the manure discharge event referenced below. Early this morning, Travis Engels of the Kewaunee County Land and Water Conservation Department, and myself observed manure-laden water from a field drain tile line (green dashed arrows in photo below) discharging to a mapped wetland (shaded orange in photo below), which outlet to an Unnamed Tributary of the East Twin River in the Town of Carlton, Kewaunee County. The exact origin of the manure in the tile line was unclear as several fields in the immediate vicinity had recently received manure applications by different farms, all of which were identified and contacted. Several of these farms worked cooperatively to remove 10,000-15,000 gallons of manure-laden water from the waterway before discontinuing cleanup actions early in the afternoon. DNR staff from the Ag Runoff and Spills programs, as well as County staff conducted extensive surveys of the area, tile line features, and fields that had received manure applications and were unable to definitively identify a RP; further investigation will continue to take place tomorrow. Water samples were collected and sent to the State Laboratory of Hygiene for analysis. The Drinking and Groundwater Program was contacted and reported that private wells in the area were not at a high risk of contamination as a result of the manure discharge. As of 5:00 p.m. manure-laden water originating from the field drain tile line was still flowing to an Unnamed Tributary of the East Twin River. There did not appear to be a fish kill event related to this discharge as of this time. The East Twin River is a Class II Trout Stream upstream of the manure discharge, and Wadable Nursery Waters for Smallmouth Bass downstream of the manure discharge.



Thank you to Rick Joslin, Ben Uvaas, and Travis Engels for providing technical assistance throughout the day.

Please feel free to contact me if you have any questions.

Thank you,
Andrea

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Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Joslin, Richard R - DNR

Sent: Wednesday, November 08, 2017 11:22 AM

To: DNR DL NER SIGNIFICANT SPILL

Cc: Gruen, Andrea M - DNR; Schmitt Marquez, Heidi S - DNR; Jones, Casey L - DNR; Gansberg, Mary K - DNR; Webb, Carrie A - DNR; Legler, Nicholas D - DNR; Merry, JaNelle P - DNR; Stoll, Richard C - DNR; Meronek, Thomas - DNR; Davina Bonness; Betsy_Galbraith@fws.gov

Subject: Significant Spill - Manure Release in Kewaunee County (SERTS # 2171108NE31-1)

Hello Everyone,

The Wisconsin Department of Natural Resources received a report of a manure spill in Kewaunee County this morning. Details are few and still being worked out at this time. This is what we know:

Andrea Gruen, WDNR Ag Runoff Specialist and Kewaunee County Land Conservation Department observed a manure release from a drain tile system near the Township of Carlton, Kewaunee County. Approximate location can be observed using the link below:

<https://www.google.com/maps/place/Co+Rd+B,+Kewaunee,+WI+54216/@44.39954,-87.6125494,13.95z/data=!4m5!3m4!1s0x8802d5b900036fe7:0x251b1240753b620a!8m2!3d44.4000259!4d-87.5964082>

Manure was observed in an unnamed stream (near CTH B and CTH J) that combines with the East Twin River (see map below)



The quantity released is not known at this time. The source of the release is not known at this time. There has been no reports of fish kills at this time. Three farms that spread manure on nearby fields in the area are working together to address the spill. Preliminary plans are to contain the impacted water and use vacuum trucks for collection. WDNR Ag Runoff staff and Kewaunee County are continuing to search for a source of the release.

If you have any questions please feel free to contact me.

Rick

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

Wisconsin Department of Natural Resources

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Richard.Joslin@Wisconsin.gov



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Joslin, Richard R - DNR

From: Merry, JaNelle P - DNR
Sent: Wednesday, November 08, 2017 3:09 PM
To: Joslin, Richard R - DNR
Cc: Gruen, Andrea M - DNR; Nessman, Martin D - DNR
Subject: RE: Significant Spill - Manure Release in Kewaunee County (SERTS # 2171108NE31-1)

Hi Rick,

I reviewed the area well logs in the south ½ of Section 4 and the north ½ of Section 9, Town of Carlton, Kewaunee County, where this manure release occurred. The well logs indicate a layer of clay/sand/gravel that is 80 to 150-feet thick over limestone. In some of the well logs the clay layer itself is at least 30 feet thick. Well casing depths in this area are 80 to 150-feet deep. The limestone rises, if you follow the river to the south in Section 8, to around 60-feet below ground surface.

Given the depth of clay over the limestone I don't not think there is an imminent threat to wells in the area. That said, if any well owner expresses concern about their well water the Department recommends that they contact a lab of their choice and get a kit to sample their well for bacteria. If their drinking water should turn brown/smelly/foamy they should contact us immediately.

Contact me if you have any questions.

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JaNelle Merry

Phone: 920-662-5484

JaNelle.Merry@wisconsin.gov

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Sent: Wednesday, November 08, 2017 11:22 AM
To: DNR DL NER SIGNIFICANT SPILL
Cc: Gruen, Andrea M - DNR; Schmitt Marquez, Heidi S - DNR; Jones, Casey L - DNR; Gansberg, Mary K - DNR; Webb, Carrie A - DNR; Legler, Nicholas D - DNR; Merry, JaNelle P - DNR; Stoll, Richard C - DNR; Meronek, Thomas - DNR; Davina Bonness; Betsy.Galbraith@fws.gov
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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

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